MAC LAYER PROTOCOL FOR A WIRELESS DSL NETWORK

ABSTRACT OF THE DISCLOSURE

A base station for use in a point-to-multipoint wireless network. The base station transmits downstream data packets in a downstream traffic channel to customer premises equipment (CPE) devices and receives upstream data packets in an upstream traffic channel from the CPE devices. The base station determines queue status of at least one queue associated with at least one application in each of the CPE devices and, in response to the determination, the base station re-allocates bandwidth from a first queue associated with a first CPE device to a second queue.